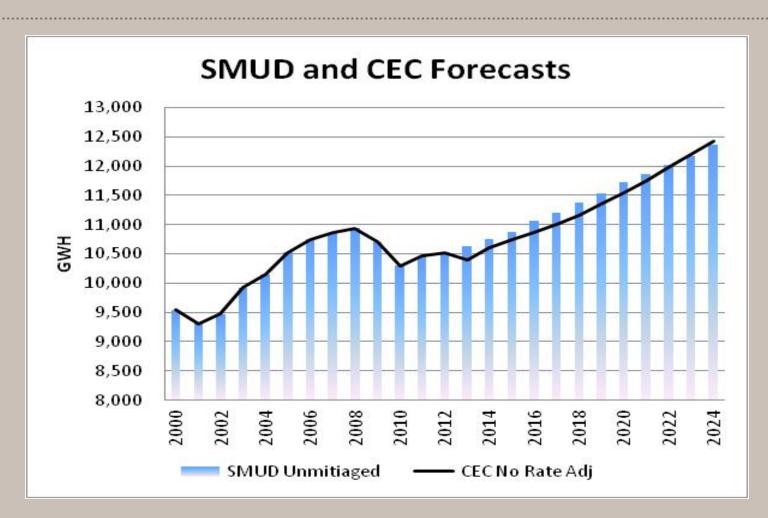


Overview

- CEC MID and SMUD Unmitigated Forecast
- SMUD Unmanaged and Managed Sales Forecast
- SMUD Unmanaged and Managed Peak Forecast
- SMUD Program Impacts

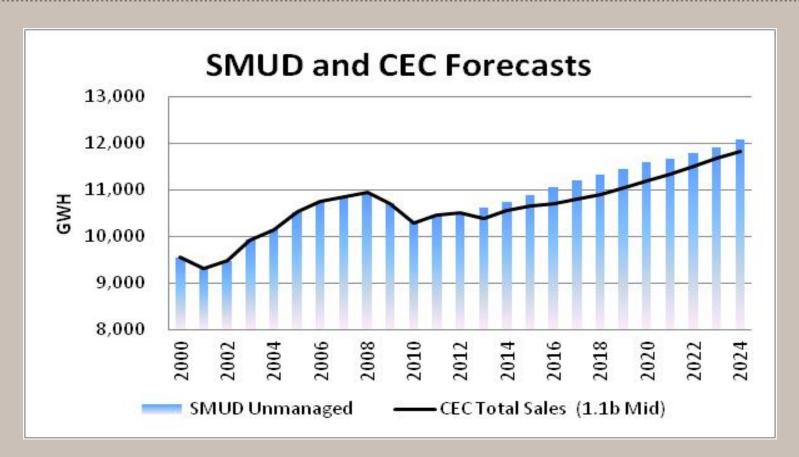


CEC MID and SMUD Unmitigated Forecast Annual Sales





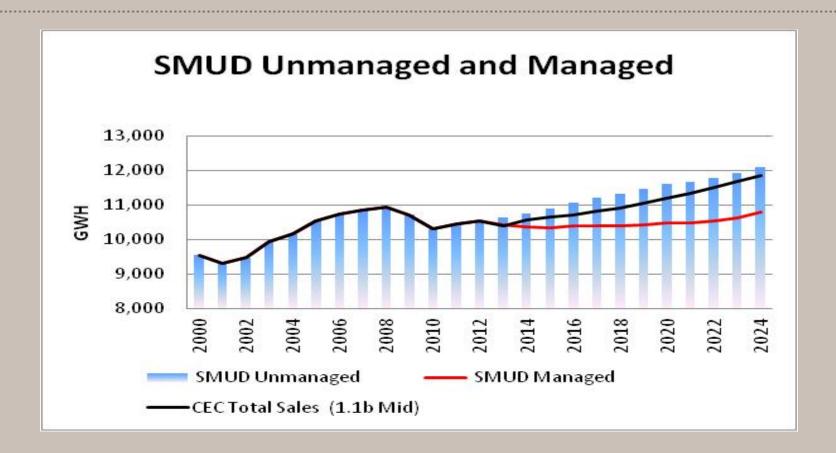
CEC MID and SMUD Unmanaged Forecast Annual Sales



SMUD Unmanaged includes changes in appliance saturations/efficiencies and residential and small commercial new construction

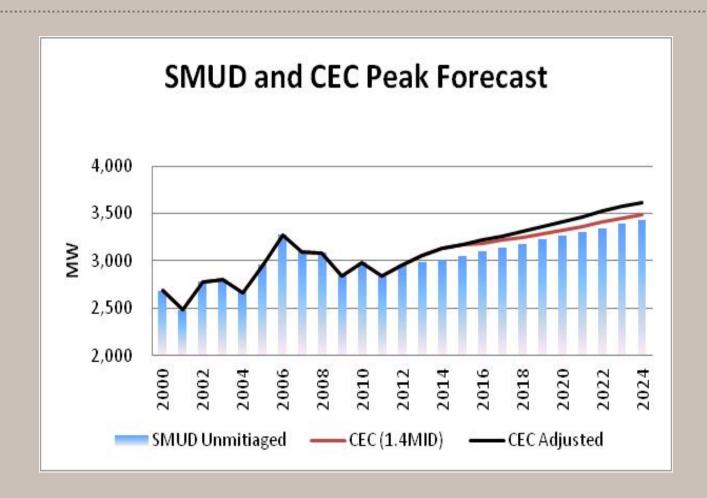


SMUD Unmanaged and Managed Forecast Annual Sales



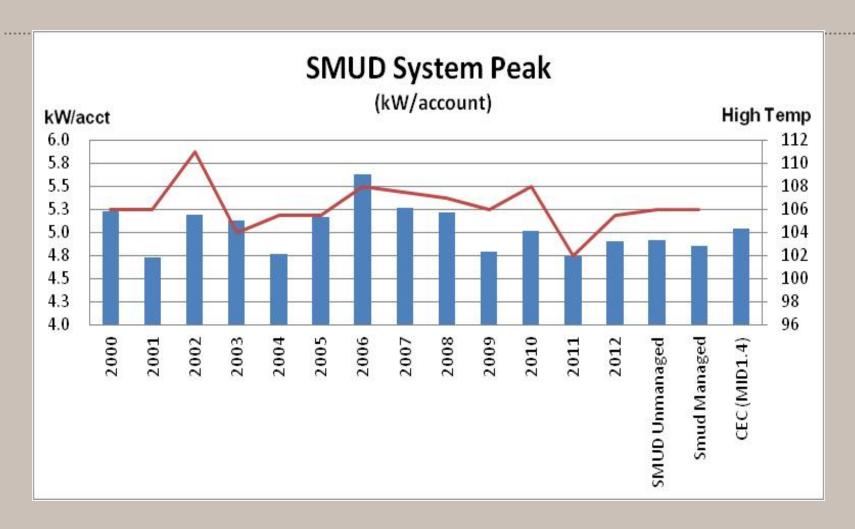
SMUD Managed sales forecast includes program impact for EE, PV-SB1, EV, and departing loads.

CEC MID and SMUD Unmitigated System Peak Forecast



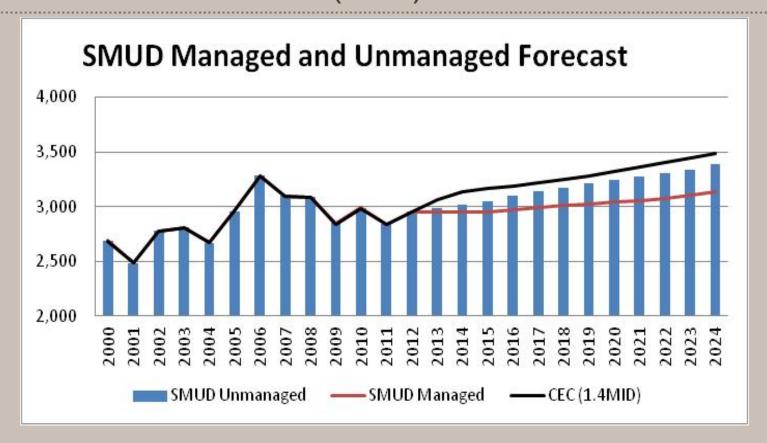


CEC MID and SMUD Unmitigated System Peak Forecast





SMUD Unmanaged and Managed System Peak Forecast (MW)



SMUD Unmanaged forecast includes changes in appliance saturations/efficiencies and residential and small commercial new construction

SMUD Managed forecast includes program impact for EE, PV-SB1, EV, and departing loads.



Sales Impacts							
	New	SAE	Energy			Departing	Total
Year	Construction	Standards	Efficiency	PV-SB1	EV	Load	Impacts
2013	0.0%	0.0%	-1.6%	-0.1%	0.0%	-0.2%	-1.9%
2014	0.0%	0.0%	-3.1%	-0.2%	0.0%	-0.3%	-3.6%
2015	0.0%	0.0%	-4.4%	-0.4%	0.1%	-0.3%	-5.0%
2016	0.0%	0.0%	-5.6%	-0.5%	0.2%	-0.3%	-6.2%
2017	0.0%	0.0%	-6.7%	-0.6%	0.3%	-0.3%	-7.3%
2018	-0.1%	-0.3%	-7.6%	-0.6%	0.4%	-0.3%	-8.6%
2019	-0.2%	-0.5%	-8.4%	-0.7%	0.5%	-0.3%	-9.7%
2020	-0.4%	-0.8%	-9.1%	-0.8%	0.7%	-0.3%	-10.6%
2021	-0.5%	-1.2%	-9.6%	-0.9%	0.9%	-0.3%	-11.6%
2022	-0.6%	-1.3%	-10.1%	-1.0%	1.0%	-0.3%	-12.3%
2023	-0.7%	-1.4%	-10.4%	-1.1%	1.2%	-0.3%	-12.7%
2024	-0.8%	-1.3%	-10.6%	-1.1%	1.4%	-0.3%	-12.7%

Pea	k I	mp	acts
			MOL.

	New	SAE	Energy			Departing	Total
Year	Construction	Standards	Efficiency	PV-SB1	EV	Load	Impacts
2013	0.0%	0.0%	-1.0%	-0.1%	0.0%	-0.1%	-1.2%
2014	0.0%	0.0%	-1.9%	-0.2%	0.0%	-0.1%	-2.2%
2015	0.0%	0.0%	-2.7%	-0.4%	0.0%	-0.1%	-3.2%
2016	0.0%	0.0%	-3.5%	-0.5%	0.0%	-0.1%	-4.1%
2017	0.0%	0.0%	-4.1%	-0.6%	0.0%	-0.1%	-4.8%
2018	-0.1%	-0.2%	-4.4%	-0.7%	0.0%	-0.1%	-5.5%
2019	-0.1%	-0.3%	-4.9%	-0.8%	0.1%	-0.1%	-6.2%
2020	-0.2%	-0.5%	-5.3%	-0.9%	0.1%	-0.1%	-7.0%
2021	-0.3%	-0.8%	-5.6%	-1.0%	0.1%	-0.1%	-7.7%
2022	-0.4%	-0.9%	-5.8%	-1.1%	0.1%	-0.1%	-8.2%
2023	-0.5%	-0.9%	-6.0%	-1.2%	0.1%	-0.1%	-8.5%
2024	-0.5%	-0.8%	-6.0%	-1.1%	0.1%	-0.1%	-8.4%



		Doto	il Coloo (CV				
	1		il Sales (GV				
Year	Unmanaged	EE	SB1	EV	Departing Load	Managed	
2013	10,630	(171)	(8)	1	(20)	10,432	
2014	10,747	(332)	(23)	4	(33)	10,363	
2015	10,880	(484)	(40)	12	(33)	10,336	
2016	11,066	(625)	(51)	19	(33)	10,376	
2017	11,200	(753)	(62)	31	(33)	10,383	
2018	11,328	(868)	(74)	44	(33)	10,397	
2019	11,447	(972)	(85)	62	(33)	10,419	
2020	11,594	(1,065)	(97)	79	(33)	10,479	
2021	11,660	(1,144)	(108)	102	(33)	10,477	
2022	11,781	(1,211)	(119)	122	(33)	10,540	
2023	11,909	(1,265)	(131)	145	(33)	10,625	
2024	12,092	(1,306)	(131)	170	(33)	10,793	
	System Peak (MW)						
Year							
	Unmanaged	EE	SB1	EV	Departing Load	Managed	
2013	Unmanaged 2,981	(29)	SB1 (2)	EV 0	Departing Load (4)	Managed 2,946	
2013							
	2,981	(29)	(2)	0	(4)	2,946	
2014	2,981 3,013	(29) (57)	(2) (7)	0	(4) (4)	2,946 2,946	
2014 2015	2,981 3,013 3,049	(29) (57) (83)	(2) (7) (12)	0 0 0	(4) (4) (4)	2,946 2,946 2,951	
2014 2015 2016	2,981 3,013 3,049 3,095	(29) (57) (83) (108)	(2) (7) (12) (15)	0 0 0 1	(4) (4) (4) (4)	2,946 2,946 2,951 2,969	
2014 2015 2016 2017	2,981 3,013 3,049 3,095 3,141	(29) (57) (83) (108) (130)	(2) (7) (12) (15) (19)	0 0 0 1 1	(4) (4) (4) (4) (4)	2,946 2,946 2,951 2,969 2,990	
2014 2015 2016 2017 2018	2,981 3,013 3,049 3,095 3,141 3,175	(29) (57) (83) (108) (130) (141)	(2) (7) (12) (15) (19) (22)	0 0 0 1 1 1	(4) (4) (4) (4) (4) (4)	2,946 2,946 2,951 2,969 2,990 3,009	
2014 2015 2016 2017 2018 2019	2,981 3,013 3,049 3,095 3,141 3,175 3,211	(29) (57) (83) (108) (130) (141) (159)	(2) (7) (12) (15) (19) (22) (26)	0 0 0 1 1 1 2	(4) (4) (4) (4) (4) (4) (4)	2,946 2,946 2,951 2,969 2,990 3,009 3,025	
2014 2015 2016 2017 2018 2019 2020	2,981 3,013 3,049 3,095 3,141 3,175 3,211 3,241	(29) (57) (83) (108) (130) (141) (159) (173)	(2) (7) (12) (15) (19) (22) (26) (29)	0 0 0 1 1 1 2 2	(4) (4) (4) (4) (4) (4) (4) (4)	2,946 2,946 2,951 2,969 2,990 3,009 3,025 3,038	
2014 2015 2016 2017 2018 2019 2020 2021	2,981 3,013 3,049 3,095 3,141 3,175 3,211 3,241 3,270	(29) (57) (83) (108) (130) (141) (159) (173) (184)	(2) (7) (12) (15) (19) (22) (26) (29) (32)	0 0 1 1 1 2 2 3	(4) (4) (4) (4) (4) (4) (4) (4)	2,946 2,946 2,951 2,969 2,990 3,009 3,025 3,038 3,053	



Year	Plug-In Vehicles	Sales (MWH)
2013	450	1,188
2014	1,575	4,158
2015	4,387	11,581
2016	7,200	19,057
2017	11,700	30,883
2018	16,700	44,084
2019	23,450	61,902
2020	29,700	78,617
2021	38,633	101,982
2022	46,367	122,387
2023	54,900	144,911
2024	64,233	170,029
2025	74,367	196,310
2026	85,300	225,171
2027	97,033	256,144
2028	109,700	290,334
2029	125,567	331,465
2030	139,700	368,774
2031	155,424	410,281
2032	172,918	457,722



http://energycenter.org/index.php/incentive-programs/clean-vehicle-rebate-project/cvrp-project-statistics

